

# 27th Annual Natural Areas Conference

October 16-20, 2000

Henry VIII Hotel  
St. Louis, Missouri



## *Registration and Preliminary Program*

*Managing the Mosaic ♦ Connecting People and  
Natural Diversity in the 21st Century*

*CO-HOSTS*



Missouri  
Conservation  
Department

# Welcome . . .

The Natural Areas Association, the member agencies of the Missouri Natural Areas Committee and the Missouri Department of Conservation invite you to attend the first Natural Areas Conference of the new century.

Our theme, *Managing the Mosaic: Connecting People and Natural Diversity in the 21st Century*, will stress the importance of human interaction in wildlife and ecosystem conservation and management. The conference logo illustrates the connection between humans and rare species such as the regal fritillary, Niangua darter, cave salamander and log fern. Invited speakers in the plenary session will discuss aspects of this relationship.

Many sessions will be new to the Natural Areas Conference, but they are globally relevant. They include Communicating the Importance of Natural Diversity, Land Trusts and Their Role in Land Conservation, Conserving Caves and Karst Communities, Stream Ecology and Conservation and Endangered Species Research and Management. We are also keeping some of the traditional sessions such as Public Natural Areas Programs and Monitoring.

Excellent field trips will highlight the tremendous natural diversity found in Missouri and Illinois. You make the difficult choice of which tour to take; one conference field trip is included in the full conference registration fee. We have also organized seven pre-conference trips for those of you with more time to explore the area.

The conference site will be the Henry VIII Hotel and Conference Center in St. Louis, Missouri. We will be hosting an opening night reception at the Gateway Arch on Monday, October 16 at 7:30 pm. To attend the reception, we must receive your registration before September 29. Please indicate whether you will attend the reception on the Registration Form on page 15.

*Join us in Missouri, where the rivers run!*



## 2000 Conference Agenda

### Saturday, October 14-Monday, October 16

Pre-conference field trips

#### Monday, October 16

8:00 am-5:00 pm . . . . .NAA Board meeting  
1:00 pm-7:00 pm . . . . .Registration and Exhibits  
7:30 pm-10:00 pm . . . . .Gateway Arch Reception

#### Tuesday, October 17

As early as you like . . . . .Breakfast on your own  
7:30 am-5:00 pm . . . . .Registration  
8:00 am-8:00 pm . . . . .Exhibits and posters  
8:30 am-10:00 am . . . . .Plenary session  
10:30 am-noon . . . . .Concurrent sessions  
noon-1:30 pm . . . . .Buffet lunch  
1:30 pm-4:00 pm . . . . .Concurrent sessions  
4:00 pm-5:30 pm . . . . .Membership meeting  
5:00 pm-7:00 pm . . . . .Social, silent auction, poster session  
5:00 pm-8:00 pm . . . . .Dinner on your own  
8:00 pm-10:00 pm . . . . .Orion Society Presentation

#### Wednesday, October 18

As early as you like . . . . .Breakfast on your own  
7:30 am-5:00 pm . . . . .Registration  
8:00 am-7:00 pm . . . . .Exhibits and posters  
8:30 am-10:00 am . . . . .Plenary session  
10:30 am-noon . . . . .Concurrent sessions  
noon-1:30 pm . . . . .Buffet lunch  
1:30 pm-5:00 pm . . . . .Concurrent sessions  
5:00 pm-7:00 pm . . . . .Social and silent auction  
7:00 pm-10:00 pm . . . . .Banquet and live auction

#### Thursday, October 19

6:30 am-8:30am . . . . .Continental breakfast  
7:00 am-10:00 am . . . . .Registration  
Beginning at 7:00 am . . . . .Field trips  
Anytime . . . . .Dinner on your own  
7:30 pm-10:30 pm . . . . .Soulard Blues Band

#### Friday, October 20

As early as you like . . . . .Breakfast on your own  
8:00 am-noon . . . . .Registration  
8:00 am-noon . . . . .Concurrent sessions  
noon . . . . .Conference ends

## Preliminary Program at-a-glance

This Program at-a-Glance is organized chronologically. Concurrent sessions are scheduled for all day Tuesday, all day Wednesday, and Friday morning. Please note that this is a preliminary program and that events may change. Check the Final Conference Packet when you register at the conference.

	Morning and Afternoon Events	Evening Events
<b>Saturday, October 14</b>	The following pre-conference trips begin: A. The Sunklands and Stegall Mountain Natural Areas; B. Ozark Ecosystems; C. Missouri Ozark Forest Ecosystem Project Tour; D. Osage Plains Tallgrass Prairie Tour; E. St. Francois Mountains Natural History Rendezvous **see pages 6 and 7 for trip descriptions	
<b>Sunday, October 15</b>	Pre-conference field trip G. Cache River, LaRue Swamp, and Pine Hills begins; see page 7 for trip description	
<b>Monday, October 16</b>	NAA Board Meeting; other small meeting groups; pre-conference field trip F. Missouri Mines State Historic Site, see page 7 for trip description	Reception at the Gateway Arch for participants who registered <b>before September 29</b>
<b>Tuesday, October 17</b>	Plenary session with Don Kurz and Dr. Jerry Franklin; Partnerships: The Public/Private Key to Natural Areas Protection; Land Trusts and Their Role in Land Conservation; Communicating the Importance of Natural Diversity; Endangered Species Research and Management; Insects in Natural Communities; Management Effects on Natural Diversity and System Dynamics—MOFEP Examples I	Social, silent auction, poster session, Special Presentation: The Orion Society's Forgotten Language Tour
<b>Wednesday, October 18</b>	Plenary session with Dr. Peter Raven and Dr. William Burch; Stream Ecology and Conservation; Natural Areas Association Forum/Orion Society Workshop; Monitoring-Procedures, Objectives and Techniques; Conserving Caves and Karst Communities; Impact and Control of Exotic Species; Management Effects on Natural Diversity and System Dynamics—MOFEP Examples II	Social, silent auction, banquet, presentation of the George B. Fell Award, banquet speaker Dr. Daniel Botkin, live auction
<b>Thursday, October 19</b>	Field trips; see pages 7-11 for trip descriptions	Social & Soulard Blues Band
<b>Friday, October 20</b>	Public Natural Areas Programs; Landscape Effects on Animal Populations; Techniques and Results of Natural Area Restoration; Managing Rare Species and Communities on Private Lands; Conservation Lands in an Urban Setting; Ecoregional Planning and Sustainable Landscapes	

## Invited Speakers

### Plenary Session, Tuesday, October 17

#### 8:00 am Welcome:

Carl Becker, President, Natural Areas Association  
Jerry Conley, Director, Missouri Department of Conservation  
Stephen Mahfood, Director, Missouri Department of Natural Resources

#### 8:15 am Introduction:

Richard Thom, Chair, Missouri Natural Areas Committee

#### 8:30 am Plenary Address:

"Missouri's Natural Features" by Don Kurz

#### 9:15 am Plenary Address:

"Bridging Science and Management" by Dr. Jerry Franklin

### Special Session, Tuesday, October 17

#### 8:00 pm

Orion Society's Forgotten Language Tour

### Plenary Session, Wednesday, October 18

#### 8:30 am Plenary Address:

"Protecting Biodiversity: Problems and Opportunities" by Dr. Peter Raven

#### 9:15 am Plenary Address:

"Finding the Natural Synergy Between Human Diversity and Global Biodiversity" by Dr. William Burch

### Banquet, Wednesday, October 18

#### 7:00 pm

"Lessons from Lewis and Clark" by Dr. Daniel Botkin

## About Our Invited Speakers

**Donald R. Kurz:** Don is a Natural History Division Chief for the Missouri Department of Conservation. Born in Kirksville, Missouri, he grew up in Illinois where he later received his M.S. degrees in zoology and botany from Southern Illinois University at Carbondale. Over his 25-year career, he has worked in Illinois, Indiana and Missouri to locate, inventory, describe, classify and recommend management and acquisition of special features including natural communities, endangered species sites, geologic areas and urban wild areas.

Mr. Kurz is also a writer and nature photographer specializing in landscapes, wildlife and plants. He has written several magazine articles, and his photos have appeared in calendars and magazines, including *Natural History*, as well as numerous wildflower books such as *Tallgrass Prairie Wildflowers* and *Missouri Wildflowers*. He has authored *Scenic Driving the Ozarks, including the Ouachita Mountains, Shrubs and Woody Vines of Missouri* and *Ozark Wildflowers*. He was awarded the Conservation Federation of Missouri 1997 Conservation Communicator of the Year and the Missouri Native Plant Society 1998 Erna R. Eisendrath Memorial Education Award.

**Jerry F. Franklin:** Dr. Franklin is Professor of Ecosystem Analysis at the University of Washington and Director of the Wind River Canopy Crane Research Facility. He is a native of Oregon and received his B.S. and M.S. degrees from Oregon State University. In 1966, he earned his Ph.D. from Washington State University. His areas of research specialization include application of ecological principles to the management of natural resources and theory and practical applications of landscape ecology.

Among the many awards Dr. Franklin has earned, in 1986 he received the Barrington Moore Award for outstanding achievement in forest research from the Society of American Foresters, in 1990 the Fell Award from the NAA, in 1992 the Conservationist of the Year from the Pacific Rivers Council in Portland, Oregon and in 1996 the William B. Greeley Award from the American Forests Association.

Dr. Franklin is a fellow of the American Association for the Advancement of Science, British Ecological Society, Society of Conservation Biology and International Association of Landscape Ecologists. He is author of more than 300 publications.

**Peter H. Raven:** Dr. Raven is Director of the Missouri Botanical Garden and Engelmann Professor of Botany at Washington University. He is a native of California and received his Ph.D. from the University of California, Los Angeles in 1960, after completing his undergraduate work at the University of California, Berkeley. He holds honorary degrees from several universities, including St. Louis University, University of Missouri-Columbia and Washington University.

In 1986, he received the International Prize for Biology from the government of Japan, in 1990 shared with E.O. Wilson the Prize of the Institute de la Vie in Paris and in 1999 *Time Magazine* named him "Hero of the Planet." He served as President of the XVI International Botanical Congress in 1999 and received the Engler Medal for distinguished lifetime service to plant taxonomy.

Dr. Raven is a member of the President's Committee of Advisors on Science and Technology and Chairman of the Committee for Research and Exploration of the National Geographic Society. Dr. Raven is author of more than 450 scientific papers and 18 books, including biology and botany textbooks.

**William H. Burch, Jr.:** Dr. Burch is a native of Oregon and earned his B.S. and M.S. degrees from the University of Oregon and his Ph.D. from the University of Minnesota in 1964. He is Hixon Professor of Natural Resource Management at Yale University School of Forestry and Environmental Studies. He has taught at many schools, including the University of Minnesota, University of Missouri, Victoria University of Wellington, New Zealand and Kesetsaart University of Bangkok, Thailand.

In 1969 and 1970, Dr. Burch was elected chair of the Natural Resource Section of the Rural Sociological Society, in 1992 named Distinguished Rural Sociologist, and is currently a member of a variety of scholarly applied social science journals.

His research and application specialties include wildland recreation behavior, institutional development for technical training and higher education curriculum and development of a unified ecosystem management approach that fully includes human behavioral variables. Dr. Burch is author, co-author, or editor of 14 books and has produced over 95 other publications.

**Daniel B. Botkin:** Dr. Botkin is founder and President of the Center for the Study of the Environment in Santa Barbara, California and Professor of Biology at George Mason University. He is a graduate of the University of Rochester, earned an M.A. in literature from the University of Wisconsin and a Ph.D. in biology from Rutgers University.

He has directed numerous projects with varied goals, including to develop methods to forecast sustainable levels of timber harvest in Costa Rica, to forecast the effects of global warming on forests and endangered species using advanced computer methods and to study the relative effects of forest practices on salmon in Oregon.

In addition, Dr. Botkin is advisor to the Taiwan Council on Economic Planning and Development, consultant to the World Bank on biological diversity and sustainability of tropical rain forests and application of remote sensing for land use mapping in Africa and consultant to the Rockefeller Foundation for assessment of major environmental organizations in North America and Europe.

Dr. Botkin is also author of more than 100 books and articles, including *Discordant Harmonies: A New Ecology for the 21st Century*, *Environmental Science: Earth as a Living Planet* and *Our Natural History: Lessons from Lewis and Clark*.

**The Orion Society:** The Orion Society's Forgotten Language Tour is a national literary tour of leading writers and poets that offers a series of readings, workshops and discussions that promote nature literacy, offering new ways of envisioning community through a deeper, more dynamic and creative understanding of our relationship with the natural world.

The Tour will bring three acclaimed nature writers to St. Louis for an evening of exhilarating readings and an inspired workshop. With a diversity of subject matter and style, two of the writers will come from across the county; the third will be from the Midwest.

The Forgotten Language Tour's participating writers are part of an extraordinary community that includes acclaimed scientists, educators and artists. Past Tour participants have garnered numerous awards and honorary positions, including U.S. Poet Laureate, the Pulitzer Prize, National Book Award, Guggenheim and Lannan Fellowships, the John Burroughs Medal and Walt Whitman Poetry Award.

**Soulard Blues Band:** The Soulard Blues Band is a local St. Louis band whose members have been together for over 20 years. They have been named the Best Blues Band in St. Louis, Missouri, for 5 years running.

## About Your Hosts

**Missouri Department of Conservation:** MDC was created by voters in the general election of 1936 in a move to restore and protect Missouri's wildlife and forests. Since that time, the Department has continued to grow and become a leader in the conservation effort. MDC is involved in restoring and protecting threatened and endangered species and habitats, purchasing public lands, enforcing hunting, trapping and fishing regulations, working with landowners to conserve natural resources and researching management techniques. The Department also produces a monthly magazine, *The Missouri Conservationist*, a television show, *Missouri Outdoors*, and a radio program, *Conservation on Call*. In addition, MDC operates several nature centers around the state and sponsors education programs for hunters, fishermen, schools and teachers.

**Missouri Natural Areas Committee:** MONAC is the interagency coordinating group for the Missouri Natural Areas System. MONAC members come from Missouri Department of Conservation, the Department of Natural Resources, the U.S. Forest Service and the National Park Service. The Nature Conservancy participates in an advisory role. The Missouri Natural Areas System protects the best remaining examples of terrestrial and aquatic natural communities and geologic features in the state. One of the goals of MONAC is to advance the understanding and appreciation of natural areas and natural landscapes of the state. To help advance this goal, MONAC and its member agencies have published the *Directory of Missouri Natural Areas*, which is available to the public.





## Pre-Conference Field Trips

Experience Missouri's and Illinois's natural diversity by participating in one of these fabulous trips prior to the conference. The cost for the trips is separate from the conference registration but may be paid with your registration fee. For more information about pre-conference trips, please contact the field trip leaders listed. Anyone (including conference participants, spouses, children and guests) going on a field trip must complete the Registration Form on page 15 as an indication that they have read and agreed to the following waiver:

*I hereby waive and release the Natural Areas Association, Missouri Department of Conservation, Destination St. Louis, the Henry VIII Hotel, all co-hosts and sponsors and involved organizations from any and all liability for an injury, illness or accident incurred while on any field trip or pre-conference field trip sponsored by the 2000 Natural Areas Conference.*

### A. The Sunklands and Stegall Mountain Natural Areas:

This physically strenuous trip will introduce participants to the natural history and landscapes of the Missouri Ozarks by foot and canoe. We will explore two large Missouri NAs in a remote region of the southeastern Ozarks. In the Sunklands NA, we will hike old trails through pine and oak woodland and dolomite glades, descend into a large, deep sinkhole complex, and hike 7 miles cross-country to a large, pristine spring whose branch enters the Current River. At the river, we will board canoes and paddle about 5 miles to the take-out point. This trip will last from dawn to dusk and maybe beyond. On day two, we will explore rhyolite glades, forests and streams in Stegall Mountain NA, starting near the top of Stegall Mountain where we can view the landscape from a fire tower. Then we will hike 2 miles on and off trail to a rhyolite shut-in and waterfall. Participants must arrange their own transportation to the Presley Education Center, an MDC-owned facility approximately 2.5 hours southwest of St. Louis. *Sign up only if you are physically capable of hiking all day over rough terrain and canoeing on a challenging river!*

**Maximum Number of People:** 10

**Length:** 2 ½ days

**Difficulty:** Very difficult

**Required Equipment:** Day pack, water bottle, hiking boots, compass, towel, rain gear

**Cost:** \$125, includes 2 nights lodging at the Presley Education Center, 5 meals, transportation on site

**Trip Leaders:** Rick Thom (573-751-4115 ext 3193)

Karen Kramer (573-751-4115 ext 3192)

**B. Ozark Ecosystems:** Experience and learn about a wide variety of native Ozark Ecosystems and their management. This 3-day trip will travel a loop through the diverse landscapes of the southeastern Missouri Ozarks. Observe outstanding Ozarkian glades and savannas and the influence of prescribed fire. Enjoy the beauty of Mini Sauk Falls and catch the sunset from Taum Sauk Mountain, the highest point in Missouri. Get your feet wet in the largest fen complex in unglaciated North America at

Grasshopper Hollow. See the crystal clear spring water boil up at the Ozarks largest spring, Big Spring. Marvel at the biogeographic oddity of an Ozark sinkhole pond, Cupola Pond. Check out the outstanding formations of an Ozarkian cave. You will have an opportunity to interact with local resource managers. We will stay in charming and rustic cabins and tempt our pallets with local Ozarkian food.

**Maximum Number of People:** 20

**Length:** 3 days

**Difficulty:** Minimal

**Required Equipment:** Day pack, rain gear, sturdy shoes, water bottle

**Cost:** \$225, includes transportation from St. Louis and on site, 2 nights lodging, 4 of 7 meals, refreshments

**Trip Leaders:** Tim Nigh (573-884-6791)

Doug Ladd (314-968-1103)

**C. Missouri Ozark Forest Ecosystem Project Tour:** Visit a comprehensive forest ecosystem project in the beautiful Missouri Ozarks. Since 1990, research scientists have been examining the impacts of forest management practices in the Ozark forest. This unique, long-term, landscape scale experiment, called MOFEP, compares the effects of even-aged, uneven-aged, and no timber harvest on a variety of ecosystem components. You will visit MOFEP sites, interact with MOFEP scientists, and learn about other Ozark landscape studies, including fire management. Spend two nights in Van Buren at the Rose Cliff Lodge perched above the crystal clear, spring-fed Current River. Also, visit spectacular natural areas including Big Spring, Blue Spring, Stegall Mountain and Johnsons Shut-Ins during peak fall color.

**Maximum Number of People:** 30

**Length:** 3 days

**Difficulty:** Minimal

**Required Equipment:** Sturdy hiking boots, water bottle, light jacket and/or rain gear

**Cost:** \$200, includes transportation from St. Louis and on site, 2 nights lodging with breakfast, 3 lunches, refreshments

**Trip Leaders:** Randy Jensen (573-663-7130)

John Kabrick (573-882-9880 ext 3253)

**D. Osage Plains Tallgrass Prairie Tour:** Enjoy fall on the prairies with the rich colors of prairie grasses, asters, gentians, goldenrods and sunflowers. We will visit the largest publicly owned prairies in Missouri (2000+ acres) and view large prairie vistas at Wah-Kon-Tah Prairie and Prairie State Park. Participants will see the full range of prairie natural community types of the Osage Plains Ecoregion including many prairies with 200+ vascular plant species and several rare and endangered species. Participants may also catch glimpses of bison, elk, northern harriers and greater prairie-chickens in their native habitat. Trip includes transportation **from Lamar, Missouri** to prairie sites, expert guides and two field lunches. We will block motel rooms; participants will be responsible for two restaurant meals and reserving their own rooms for October 14 and 15.

**Maximum Number of People:** 25

**Length:** 2 ½ days

**Difficulty:** Minimal

**Required Equipment:** Hiking and rain gear  
**Cost:** \$21, includes transportation on site, 2 lunches  
**Trip Leaders:** Carol Davit (573-751-4115 ext 3874)  
Mike Leahy (573-884-6861 ext 225)

### **E. St. Francois Mountains Natural History Rendezvous:**

The St. Francois Mountains comprise one of the largest exposed areas of explosive volcanic rock in the central United States. The volcanic strata of the Taum Sauk area forms a broad circular depression, which has been interpreted as the remnant of an ancient caldera. The St. Francois Mountains Natural Area (7,228ac), located in the middle of this caldera, is the largest designated NA in Missouri. It includes three state significant igneous glade/woodland complexes, several outstanding geologic features and a notable headwater stream. Participants will camp out for two nights on Taum Sauk Mountain, the highest point in Missouri. We will do a rugged 12.8-mile hike from the top of Taum Sauk Mountain to Johnson Shut-Ins State Park. At JSI State Park, we will see a fen and a purely geologic NA and see how these areas are protected from overuse. Participants will be able to display culinary skills in a community kitchen.

**Maximum Number of People:** 20

**Length:** 2 ½ days

**Difficulty:** Very difficult

**Required Equipment:** Tent, sleeping bag, rain gear, backpack or day pack, other camping gear, water bottle

**Cost:** \$30, includes transportation from St. Louis and on site, 2 nights camping, 6 meals

**Trip Leaders:** Mike Currier (573-526-2992)  
Ken McCarty (573-751-8660)  
Cheryl Seeger (573-368-2184)

**F. Missouri Mines State Historic Site:** Travel 70 miles south of St. Louis by van for a special tour of Missouri Mines State Historic Site at Park Hills, Missouri. This fascinating 25-acre site preserves the ruins of an early 20th Century mine-mill complex; it was the heart of the Old Lead Belt subdistrict and surface hub for a once extensive underground network of interconnected drifts and giant room-and-pillar stopes. The 16,000 sq. ft. powerhouse is being developed into an interpretive center and museum, which will document the historical role of mineral resources and the mining industry in Missouri, and preserve the history, traditions and material elements of Missouri mining life and culture. Exhibits in place feature mining history and practices in the Old Lead Belt. The museum also boasts a gallery of exceptional mineral specimens from all over the world, as well as exhibits featuring Missouri geology, natural divisions and mineral resources.

**Maximum Number of People:** 30

**Length:** 1 day, Monday, October 16

**Difficulty:** Minimal

**Required Equipment:** none

**One-way Travel Time:** 1 ½ hours

**Cost:** \$15, includes transportation, lunch

**Trip Leaders:** Art Hebrank (573-431-6226)

### **G. Cache River, LaRue-Pine Hills/Otter Pond Research Natural Area:**

Spend a day and a half exploring the Cache River State Natural Area and LaRue Swamp in southern Illinois. Cache River is located in southern Illinois within an ancient flood plain carved by an Ohio River swollen with glacial flood water. Among the outstanding natural features found within the Cache River Wetlands are massive cypress trees sporting buttresses exceeding 40' in circumference. Many of these trees are over 1,000 years old, including the state champion cypress. Wetlands within this area are so important to migratory waterfowl and shorebirds, they were collectively designated a Wetland of International Importance by the RAMSCAR Convention in 1996. LaRue Pine Hills is a popular destination for hikers, birdwatchers, naturalists, hunters and anglers. It is most recognized for its rugged topography and massive exposures of limestone bedrock that form sheer bluffs overlooking the Mississippi River flood plain. The bluffs rise 350' above thousands of acres of bottomland hardwood forest and a 1,200 acre wetland complex that contains deepwater sloughs and ponds, herbaceous marshes, shrub swamps and forested swamps. Pine Hills-LaRue Swamp contains over 4,000 acres of upland and flood plain forest, limestone barrens and wetlands. Forty-three percent of the states flora occur within this site. We will meet at the Cypress Creek NWR Headquarters in Illinois.

**Maximum Number of People:** 15

**Length:** 1 ½ days

**Difficulty:** Minimal

**Required Equipment:** Hiking boots and clothing, day pack, water bottle

**Cost:** None, participants are responsible for transportation to and on site, and all meals; hotel information provided later

**Trip Leaders:** Mark Guetersloh (618-634-2545)  
Scott Ballard (618-993-7023)  
Beth Shimp (618-253-7114)

## *Conference Field Trips*

Explore a piece of the Midwest by participating in one of the 26 field trips offered on Thursday, October 19. Except as noted, lunch and transportation for the trips are included in your registration fee. Please list your top three choices on the Registration Form on page 15. For all trips, we recommend sturdy shoes, a day pack, and rain gear. Weather may vary between 40-80F, so bring appropriate clothing for the trip you choose. *Register early for the best chance of getting your first choice! Due to safety precautions, switching field trips will not be allowed.*

### **#1. Meramec River—Freshwater Mussels and Aquatic Life:**

The Meramec River is one of the few remaining free-flowing large rivers in the Midwest. This river is home to almost 2/3 of Missouri's 65 mussel species and contains the most diverse mussel assemblage of any Missouri river. This will be a 6-7 hour canoe trip exploring the variety of aquatic life in the river while enjoying the beauty of an Ozark fall day. We will stop at several known mussel beds, giving participants the opportunity to search for mussels,

fish and crayfish by wading or snorkeling. In the event of extremely cold or inclement weather, we will have specimens collected prior to the trip available for viewing.

**Maximum Number of People:** 20

**Length:** Full day

**Travel Time One Way:** 1 hour

**Difficulty:** Moderate float trip

**Required Equipment:** Clothes to get wet in, change of clothes, water shoes, dry bag; mask and snorkel are optional, some will be provided to share

**#2. St. Louis Riverfront Geology Tour:** This urban geology walking tour offers participants an interesting historical/geological perspective of the St. Louis riverfront. No natural outcrops remain in the field trip area, so participants will examine the stone and geologic materials used to construct about 12 major buildings and structures. At each stop, the stone and its source will be identified when possible; mining, masonry or construction techniques described; suitability of the stone discussed; and historical perspective offered. While the field trip area is small, diversity of geologic materials is great. Buildings range in age from 1831 to the early 1900s. Participants will walk a total of about two miles.

**Maximum Number of People:** 30

**Length:** ½ day

**Travel Time One Way:** 30 minutes

**Difficulty:** Minimal to moderate walk of 2 miles

**Required Equipment:** Comfortable shoes, rain gear

**#3. Missouri Botanical Garden:** The Missouri Botanical Garden is not just one of the premier horticultural institutions in the United States, it is also a major center of botanical research. Participants will get a tour of the Garden's Monsanto Research Center, where research staff curate one of the largest herbaria in the world and conduct inventories and conservation programs of both local and international scope. Then, there will be an orientation of the main grounds, followed by plenty of time to explore on your own. Attendees who wish to make use of the herbarium facilities should contact George Yatskievych (314-577-9522) in advance.

**Maximum Number of People:** 45

**Length:** Afternoon only

**Travel Time One Way:** 30 minutes

**Difficulty:** Minimal

**Required Equipment:** Comfortable shoes, rain gear

**#4. Mississippi River Mussel Sampling Trip:** There are almost 300 mussel species native to North America. Of these, over half are extinct, watch listed or listed as endangered or threatened. The Upper Mississippi River System has historically hosted 50 species of mussels. At present, approximately 30 species remain extant in the river. This field trip will serve as not only a lesson in mussel biology and modern sampling techniques but also as a glimpse into the history of human utilization of mussels and harvesting practices. Participants will experience using a bail, live mussel identification, grubbing and the beauty of the Mississippi River.

**Maximum Number of People:** 13

**Length:** Afternoon only

**Travel Time One Way:** 1¼ hours

**Difficulty:** Minimal to moderate

**Required Equipment:** Clothes and shoes to get wet; change of clothes; chest waders and hip boots optional

**#5. Onondaga Cave State Park:** We will visit two outstanding natural features of this 1,300-acre park, Cathedral Cave and Vilander Bluff Natural Area. In the morning, we will visit Cathedral Cave, a show cave with about 1,500 people visiting per year. After lunch at the Visitors Center, we will travel to Vilander Bluff NA. The Meramec River passes through the 206-acre NA, which contains one of the most prominent and impressive vertical cliff exposures in the Upper Ozarks Section and undoubtedly the highest along the Meramec River. The course of the river is an excellent example of an incised meander, and the bluff is home to virgin eastern red cedar (*Juniperus virginiana*) stands that are more than 300 years old, which host a disjunct population of *Flavoparmelia rutidota*, a lichen that is known from only two other sites in Missouri. We will walk on a trail in the cave (no technical spelunking). Vilander Bluff NA does not have a developed hiking trail. Dress appropriately for 2-3 miles of hiking and for the weather.

**Maximum Number of People:** 30

**Length:** Full day

**Travel Time One Way:** 1¾ hours

**Difficulty:** Moderate

**Required Equipment:** Flashlight, hiking boots, rain gear, long pants

**#6. Tour of Shaw Arboretum's Natural Community Restoration and Reconstruction Projects:** Shaw Arboretum, a nature reserve of the Missouri Botanical Garden, is located in Gray Summit, Missouri. The 2,400-acre Shaw Arboretum is a National Environmental Education Landmark and offers more than 10 miles of hiking trails through Ozark border landscape, environmental education classes for children and adults and numerous community restoration and construction projects. This field trip will focus on the Arboretum's 20-year-old tallgrass prairie and nine-year-old wetland reconstruction projects, and dolomite glade and woodland restoration projects. In addition, participants may enjoy Shaw Arboretum's museum on the history of land use in the Meramec River Valley, Whitmire Wildflower Garden and Osage Garden.

**Maximum Number of People:** 40

**Length:** Full day

**Travel Time One Way:** 1 hour

**Difficulty:** Moderate

**Required Equipment:** Hiking apparel, rain gear, day pack

**#7. Confluence Canoe Trip:** This full day canoe trip begins on the Missouri River 17 miles above its confluence with the Mississippi River and ends at the junction of these two historic waterways at Columbia Bottom Conservation Area. We'll stop and explore Pelican Island Natural Area, which features a large sand and gravel bar in addition to other Big River communities still recovering from the Great Flood of 1993. We'll have lunch on



Cora Island, where Captain Clark and the Corps of Discovery spent their first night on the Missouri River. We'll wrap up the trip by riding the waters of the muddy Missouri into the mighty Mississippi. Participants will have the opportunity to help carry canoes up the river bank and back to the trailer, approximately 200 yards. Weather is variable and may be cooler on the river, so dress accordingly. Personal gear such as binoculars and wallets should be kept in a dry bag, waterproof waist pack, etc. These will not be provided. *This field trip is not for beginners; participants need to know how to handle a canoe and how to swim.* In the event of severe weather or high water, the trip will be canceled. **Best to do this trip with a friend.**

**Maximum Number of People:** 30

**Length:** Full day

**Travel Time One Way:** 1 hour

**Difficulty:** Moderate to difficult

**Required Equipment:** Clothing for canoeing, hat, sunglasses, sun screen, dry bag

**#8. Victoria Glades:** Victoria Glades are components of a large glade system located just southwest of St. Louis. The harsh glade environment created by the shallow soils overlying dolomite bedrock supports a unique flora and fauna. Large populations of the sporadically-distributed Fremont's leather flower occur in the area. Other interesting plants include blue wild indigo, American aloe, downy gentian, silky aster and blazing-star. A well-represented glade fauna includes collared lizards, tarantulas, plains scorpions and black widows. On-going management includes cedar felling and prescribed burns. Participants can expect to spend 5-6 hours exploring the glades. Hiking will be moderately difficult.

**Maximum Number of People:** 24

**Length:** Full day

**Travel Time One Way:** 1½ hours

**Difficulty:** Moderate

**Required Equipment:** Water bottle, long pants, sturdy boots, rain gear, day pack, insect repellent

**#9. Southwestern Illinois Sinkhole Plain:** The Sinkhole Plain covers about 1,228 sq miles in southwestern Illinois. The surface is pocked with sinkholes numbering an average of 230 per sq mile; over 10,000 in all. This field trip will tour the sinkhole plain and view some of the threats to groundwater contamination that are present in the area. A stop will be made at Falling Spring, a large karst spring in St. Clair County. We will visit Camp Vandeventer, a Natural Area Inventory Site with springs, caves and a large karst window. The final stop of the day will be a trip to Illinois Caverns. The cave passage is muddy and slippery.

**Maximum Number of People:** 24

**Length:** Full day

**Travel Time One Way:** 1½ hours

**Difficulty:** Minimal to moderate

**Required Equipment:** Hard hat, headlamp, clothes to get muddy in, change of clothes, boots with good soles, two other sources of light, day pack

**#10. Pere Marquette State Park:** Journey along the Alton Palisades and the Mississippi River as we view diverse habitats that make up the Big Rivers Resource Rich Area of southwest central Illinois. Following an introduction to the site, we will hit the trails at Pere Marquette State Park. The trail will ascend up the hill along the limestone bluff and mature oak-hickory forest to spectacular views of the Illinois River valley. Look for migrating raptors and waterfowl as we survey the loess hill prairies on top of the bluff. This site is rich in geologic and archaeological studies, so those aspects will be explored. We will hike for 2 hours in steep terrain but will stop frequently.

**Maximum Number of People:** 24

**Length:** ¾ day, mostly hiking

**Travel Time One Way:** 1 hour

**Difficulty:** Moderate

**Required Equipment:** Sturdy hiking boots, rain gear, day pack

**#11. Fults Hill Prairie and Kidd Lake Marsh:** Fults Hill Prairie Nature Preserve, located in Monroe County, Illinois, encompasses one of the largest complexes of high quality loess hill prairie remaining in Illinois. The site is home to a variety of plants and animals rare or absent elsewhere in Illinois. Located atop the steep southwest-facing Mississippi River bluffs, Fults Hill Prairie is a physically-challenging destination, but the sights are worth the effort. We will have lunch on the prairie where we have a spectacular view of the Mississippi Valley and can watch for hawks and vultures traveling along the bluff line. After the hike, we will explore the edges of Kidd Lake Marsh at the base of the Fults bluffs. This wetland provides a refuge for waterfowl and a good opportunity to see some interesting birds. Participants should be prepared for a somewhat strenuous hike.

**Maximum Number of People:** 15

**Length:** Full day

**Travel Time One Way:** 1½ hours

**Difficulty:** Difficult

**Required Equipment:** Hiking boots, day pack, water bottle

**#12. Fisher and Mushroom Caves:** Cave ecologists will lead a tour of Fisher Cave, which has a good trail, pointing out several species of bats, salamanders, invertebrates, speleothems and other natural features. There may be an opportunity for a bit of off-trail caving. After lunch, we will explore Mushroom Cave, which requires wading in a shallow stream. We will see bats, pickerel frogs, salamanders, isopods and amphipods. Both caves are protected with special gates, which will prompt discussion of management methods for the protection of cave resources. Helmets and headlamps will be provided.

**Maximum Number of People:** 20

**Length:** Full day

**Travel Time One Way:** 2 hours

**Difficulty:** Moderate to difficult caving

**Required Equipment:** Hiking boots you don't mind getting muddy and wet, long pants or coveralls, change of clothes, 4 alkaline AA batteries, 2 sources of light, water bottle, day pack

**#13. Katy Trail Interpretive Bike Ride:** Participants will explore the Missouri River Valley and Ozark Border woodlands including the Weldon Spring Hollow Natural Area. We will enjoy a 10.5-mile bike ride from Augusta (rich in German-American culture) to the Weldon Spring Conservation Area via Katy Trail State Park, the longest rail-trail conversion currently open in the U.S. Bike rental arrangements will be made with the Touring Cyclist. Participants will travel the nearly-level Katy Trail to Weldon Spring, arriving around noon for box lunches. A short walk into the Weldon Spring Hollow NA will allow everyone to stretch his or her legs before biking back to Augusta.

**Maximum Number of People:** 25

**Length:** Full day

**Travel Time One Way:** 1 hour

**Difficulty:** Moderate

**Required Equipment:** Clothing appropriate for biking, rain gear, day pack

**#14. Glades Galore:** Danville and Graham Cave Glades, located west of St. Louis, offer excellent examples of managed and protected glade habitats. You will be led on a 2-mile loop through Danville Conservation Area. You will see limestone glades that support plant communities of little bluestem, side oats gamma, pale purple coneflower, aromatic aster and the state-listed prairie dandelion. In addition, you will see limestone and sandstone woodlands, small sandstone overhangs with Forbes saxifrage, and headwater creeks with heart-leaved plantain. After lunch, we will head to Graham Cave, the site of prehistoric human occupation over 10,000 years ago. The park features excellent sandstone and dolomite glades. We will participate in a fall species inventory, as well as a search for Mountain Spleenwort, and a variety of Ladies Tresses. This part of the tour includes 1.5 miles of hiking.

**Maximum Number of People:** 24

**Length:** Full day

**Travel Time One Way:** 1½ hours

**Difficulty:** Moderate

**Required Equipment:** Hiking boots, rain gear, water bottle, day pack

**#15. Urban Natural Areas on North City St. Louis:** The North City neighborhoods of St. Louis contain the largest amount of open space and natural areas in the city. Spend a pleasant fall day visiting five sites that show a range of opportunities for natural area management in inner city neighborhoods and learn about grass roots efforts to involve local residents in management projects on these unique sites. Our trip will start at the Pruitt-Igo housing project, a large site that has developed into significant wildlife habitat. We will visit one of the largest open spaces in the city formed by O'Fallon Park, Bellefontaine Cemetery and Calvary Cemetery, a 400-ha area that includes a remnant prairie. Following lunch, we will hike on Riverfront Trail, which provides access to flood plain forests along the Missouri River, abandoned industrial areas and railroad right-of-ways that have become important habitat for grassland birds, and sites that have been the focus of restoration efforts by local residents and businesses.

**Maximum Number of People:** 23

**Length:** Full day

**Travel Time One Way:** 1 hour

**Difficulty:** Minimal

**Required Equipment:** Comfortable shoes, day pack

### **#16. Riverlands Project and Marais Temps Clair**

**Conservation Area:** Relax and enjoy a guided auto tour of wetland wildlife and learn about wetland habitat management in Missouri. We will start at Marais Temps Clair marsh, an old oxbow of the Missouri River located in a river flood plain that serves as a resting and feeding place for waterfowl. Participants will then be led on a tour of the Riverlands Environmental Demonstration Area (EDA), a 1,200 acre prairie-marsh restoration area located adjacent to the Melvin Price Locks and Dam near Alton, IL. The EDA exemplifies a balanced management approach between sustaining the river as a nationally significant transportation corridor and recognizing the environmental attributes of the area. The project utilizes the river's continuing influence to create a bottomland-wet prairie and marsh akin to that. Participants will have the opportunity to discuss the development of restoration projects in an informal setting throughout the trip, with a formal question and answer session at the Riverlands Environmental Learning Facility following. For the outdoor enthusiast, bring a pair of binoculars, as Riverlands EDA is locally and nationally recognized for wildlife viewing opportunities.

**Maximum Number of People:** 23

**Length:** Full day

**Travel Time One Way:** ¾ hour

**Difficulty:** Minimal

**Required Equipment:** Comfortable shoes, rain gear

**#17. Weldon Spring Conservation Area:** Weldon Spring Conservation Area is located west of St. Louis near the town of Weldon Spring, Missouri. It is part of a 16,918 acre contiguous tract of public land. The area is rich in natural features: in addition to the Missouri River with its rugged limestone cliffs, the area contains a unique 385-acre natural area that will be the primary focus of this trip. The NA has dry limestone cliffs and bluff escarpments that extend one mile along the Missouri River. Participants will have the opportunity to explore the area and observe some of its diverse plant community.

**Maximum Number of People:** 23

**Length:** Full day

**Travel Time One Way:** 1 hour

**Difficulty:** Minimal

**Required Equipment:** Walking shoes, rain gear, day pack

**#18. Managing the Meramec's Mosaic:** Since its establishment in 1926, the 7,000 acres of Meramec State Park have been a haven for Ozark biodiversity. During our float trip, we will examine some of the river's 125 fish species, 44 mussel species, 9 turtle species and various other aquatic fauna. Participants will have the opportunity to learn how to use casting nets to sample fish in a portion of the river that will be nominated as part of a new 400-acre natural area. We will also hike to the top of Butterfly Bluff and explore a half-mile of glades and savannas being nominated. *This trip is recommended for experienced canoeists.*

**Maximum Number of People:** 30

**Length:** Full day

**Travel Time One Way:** 1½ hours

**Difficulty:** Moderate

**Required Equipment:** Clothes and shoes to hike in and/or get wet, rain gear, dry bag, change of clothes

### #19. Forrest Keeling Nursery and NRCS Plant Materials Center Tour:

At Forrest Keeling Nursery, you will see a multi-step tree production program built around a system of air root pruning to solve problems associated with a wide variety of very desirable but traditionally difficult to grow oaks. This system (RPM) has accelerated the growth of oaks to grow as fast as native trees such as ash or locust, plus acorn production has been observed on many 3-year old planted trees. At the NRCS Plant Materials Center, you will get to see first-hand conservation plant research for Missouri, Iowa and Illinois. Many varieties of woody plants and warm season grasses have been developed at this site. Learn how this can help restore natural areas to historical conditions.

**Maximum Number of People:** 40

**Length:** Full day

**Travel Time One Way:** 1½ hours

**Difficulty:** Minimal

**Required Equipment:** Comfortable shoes, rain gear

### #20. Lincoln Hills Natural Area/Cuivre River State Park:

The Lincoln Hills Natural Area, within Cuivre River State Park, is a large and diverse example of the Lincoln Hills landscape within the St. Louis metropolitan region. This field trip will look at some of the research, restoration management and threats dealt with in attempting to protect a large NA in a fragmented landscape near a large urban area. Research includes birds and invertebrates. Management includes exotic species control, prescribed burns and deer.

**Maximum Number of People:** 45

**Length:** Full day

**Travel Time One Way:** 1½ hours

**Difficulty:** Minimal to moderate

**Required Equipment:** Sturdy hiking shoes or boots, rain gear

**#21. Big River Fish Sampling:** Fisheries sampling gears will be demonstrated on the Mississippi and Illinois Rivers near Grafton, Illinois. Participants will be on board boats for electro fishing and netting demonstrations. This trip will highlight the diversity of the fish communities in this unique natural area. Participants will meet at Beasleys Fish Market after the trip for a lunch of fresh river fish; cost included in registration. Participants will also receive a guide to Missouri fish.

**Maximum Number of People:** 15

**Length:** ¾ day

**Travel Time One Way:** ¾ hour

**Difficulty:** Minimal

**Required Equipment:** Clothes and shoes appropriate for boating, rain gear

**#22. Wine Country Tour:** We will take a relaxing trip to explore the wine country of Augusta, Missouri. A visit to Augusta offers a scenic enjoyment that is just as plentiful as the wines you'll be tasting. The Augusta wine area has the distinction of being the first designated wine district in America. The vineyards, nestled in the rolling hills along the banks of the Missouri River, have been recognized for their superior quality of grapes since the 1800s. You will be given a guided tour in route to the wineries. Then, you will be able to visit 3 wineries, enjoy a delightful lunch in Augusta and be back to St. Louis in time for dinner. There is an additional \$10 fee for this trip. Please submit payment with registration fee.

**Minimum Number of People:** 20

**Length:** ¾ day

**Travel Time One Way:** ¾ hour

**Difficulty:** Minimal

**Required Equipment:** Comfortable shoes, taste buds, valid drivers license

### #23. Geology and Natural Communities in the St. Francois Mountains:

The St. Francois Mountains region is unique geologically and in terms of natural communities. The region is a geologic terrain made up of exposed knobs of 1.4 billion year old igneous rocks surrounded by younger dolomite and sandstone. This geologic terrain supports the unique St. Francois Knobs and Basins Ecoregion of the Ozark Highlands. Protection of the geology and ecosystems of these sites will be a feature of the trip. We will visit Hughes Mountain NA, which features igneous glades and upland oak-hickory-cedar forest, little bluestem, prickly pear cactus, rushfoil and rough buttonweed. We will have lunch at Elephant Rock State Park (a geologic NA), a granite tor formed by active geological weathering processes. Lastly, we will visit Millstream Gardens, a site of igneous shut-ins.

**Maximum Number of People:** 23

**Length:** Full day

**Travel Time One Way:** 2½ hours

**Difficulty:** Moderate

**Required Equipment:** Sturdy hiking shoes, rain gear, day pack

### #24. Ancient Geology and Glacial Relicts of the LaMotte Sandstone Region:

The LaMotte Sandstone region contains the oldest sedimentary rock in Missouri. Hickory Canyons Natural Area, Hawn State Park, and Pickle Springs NA are 3 places to view unique geologic features and glacial relict plants characteristic of this area. Participants will spend time at each of these sites to help gain a landscape perspective on the unique features of this region. Plants associated with more northern climates, presumably remnant populations from a cooler climatic era, can be viewed here.

**Maximum Number of People:** 30

**Length:** Full day

**Travel Time One Way:** 2 hours

**Difficulty:** Minimal to moderate

**Required Equipment:** Sturdy walking shoes/boots, rain gear, day pack



**#25. Historical St. Louis:** What was the St. Louis area like before European settlement? How did this landscape influence patterns of settlement and industrial development? Join us as we visit some local sites that offer glimpses into the past character of the landscape and its role in shaping local history. Learn how the fabric of our landscape has shaped our heritage and how people have always played a role in shaping the post-ice age landscape. This program will be a bus tour with several stops for walking trips.

**Maximum Number of People:** 30

**Length:**  $\frac{3}{4}$  day

**Travel Time One Way:** bus tour

**Difficulty:** Minimal

**Required Equipment:** Walking shoes

### **#26. LaRue-Pine Hills/Otter Pond Research Natural Area:**

This full-day trip will be a natural history sampler at one of the outstanding NAs in the Midwest. This 2585-acre RNA on the Shawnee National Forest in southern Illinois is known for its plant and animal diversity, dramatic limestone bluffs, dry-to-xeric oak-hickory-pine woodlands and swamps. At each of several stops, researchers will join the group to share their findings about forest changes following prescribed burns, insect life histories, nesting habits of wood ducks and snake diversity. This area is also well known for the migration of snakes between their summer habitats in the bottomlands and their winter hibernacula in the limestone hills and sightings on the snake road are possible. Lunch stop is atop the massive limestone bluffs overlooking the Mississippi River flood plain and its complexes of marshes, shrub swamps and deepwater sloughs. An optional, rugged hike will ascend the bluff from the bottomlands along a trail.

**Maximum Number of People:** 12

**Travel Time One Way:** 3 hours (early departure; return after 6pm)

**Difficulty:** some walking in the woods, on roads; optional hike strenuous on uneven terrain.

**Required Equipment:** Hiking boots and clothing, day pack, water bottle

## *NAA Membership*

Become a new member of the Natural Areas Association and receive a free conference t-shirt with the conference logo in full color displayed. Indicate on the Registration Form on page 15 that you would like to join and send your dues with your registration fee. Membership includes the quarterly *Natural Areas Journal* and the quarterly newsletter, the *Natural Areas News*. Members also periodically receive conservation alerts, notices of publications available at reduced rates and other important announcements. Help meet the challenges of a changing world. Join the NAA today!

### **Levels of Membership for the Natural Areas Association**

Student .....	\$15
Retired .....	\$20
Individual .....	\$30
Library .....	\$75
Agencies .....	\$125
Corporate .....	\$250
Individual Life Membership .....	\$500

## **2001 Natural Areas Conference**

**Experience**

**Florida's  
Space Coast**

**at the  
28th Annual  
Natural Areas  
Conference**



**A Spatial Odyssey  
Searching for  
a Natural Balance  
October 3-6, 2001**

Radisson "Resort at the Port"  
Cape Canaveral, Florida  
(just south of Kennedy Space Center)

- ◆ Explore issues of ecology, technology, and society that define natural areas of the future.
- ◆ Discover the natural treasures of the Indian River Lagoon, Merritt Island National Wildlife Refuge, Cape Canaveral National Seashore, and other nearby natural areas.
- ◆ Engage in technologies that help us better understand our world.
- ◆ Communicate with nature on Orion Society's "Forgotten Language Tour."
- ◆ Share in NAAs Management and Technology FIRE Forum
- ◆ Visit [www.natareas.org](http://www.natareas.org) for conference updates.

*Hosted by Dynamac Corporation*



## Location

All conference events and plenary sessions will be held at the Henry VIII Hotel and Conference Center, St. Louis, Missouri. The mailing address is 4690 North Lindbergh Blvd., St. Louis, MO 63044. Overnight parking is free at the hotel.

## Directions

Henry VIII Hotel  
4690 North Lindbergh Blvd.  
St. Louis, MO 63044  
314-731-3040  
1-800-325-1588

## Traveling on I-70

Take the Lindbergh Blvd. exit off I-70 East. The hotel is one-half mile north of the interstate.

## Traveling East on Hwy 270

Take the Lindbergh Blvd. exit off Hwy 270 North. The hotel is one mile south of the highway.

## Traveling on I-64 (Hwy 40)

Take the Lindbergh Blvd./US Hwy 67 north. The hotel is one-half mile north of I-70.

## From the St. Louis Lambert Airport

Free shuttles are available from the airport to the Hotel. Find one of the hotel phones near the baggage claim area and call for a free ride.

## Conference Accommodations

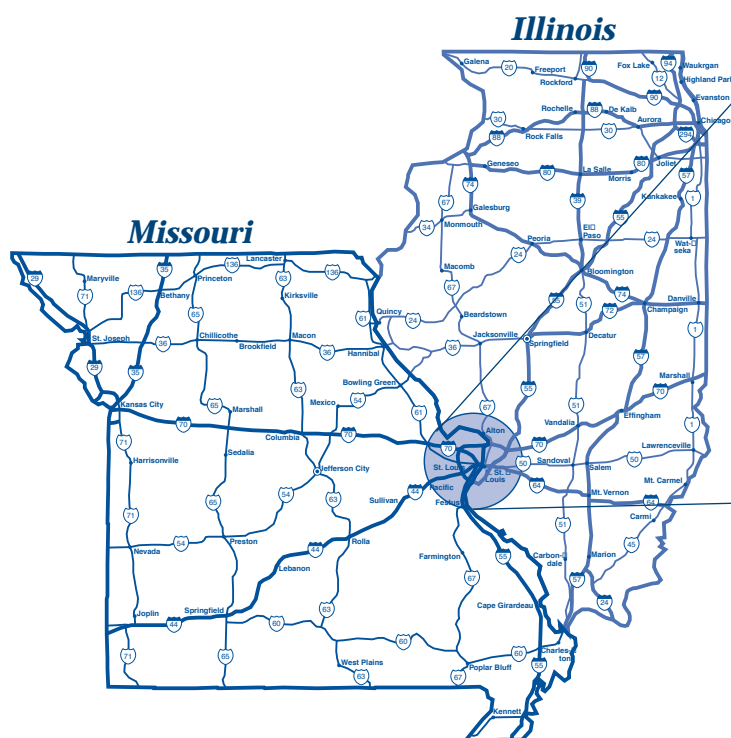
Book directly with the Henry VIII Hotel if you plan on staying on site. The Natural Areas Conference room rate is \$69 per night plus taxes. The local room tax is approximately 14%. These rates are good for three days before and after the conference. Be sure to mention the Natural Areas Conference to receive the conference rate.

## Book early

After September 15, the hotel releases available rooms to the general public, and we cannot guarantee you will have a room at the Henry VIII Hotel after this date. You will need to make your own roommate arrangements if you plan to share a room.

## Alternative Accommodations

In the event that rooms at the Henry VIII Hotel fill or you choose to stay off site, arrangements have been made for rooms to be held at the Radisson Hotel, a short distance from the Henry VIII Hotel. This block of rooms will be held until September 15 and the rate is also \$69 per night plus tax. There will be a free shuttle from the Radisson to the Henry VIII available for anyone staying there. Call 1-800-333-3333 for reservations.



## Official Conference Airlines

To reduce your costs in attending the 2000 Natural Areas Conference, we have arranged for discounted airfares with two airlines that service the St. Louis Lambert International Airport. You are responsible for your own travel arrangements.

### Trans World Airlines TWA

If you are flying into St. Louis Lambert Airport from a city serviced by TWA, you may receive a 10% discount off "F25 / Y25" fares or 5% off all other published fares. To receive this discount, mention TWA Agreement Number V17634 when ordering and paying for your ticket. You may receive this discount when you use your own travel agent or by calling 1-800-325-4933.

### Southwest Airlines

If you are flying into St. Louis Lambert Airport from a city serviced by Southwest Airlines, you may receive a 10% discount off most of their fares. They do not discount Government or Military fares. To receive this discount, mention the Identification Code G2530 when ordering and paying for your ticket. You may receive this discount when you use your own travel agent or by calling 1-800-433-5368.

*The discounts are good on flights into St. Louis Lambert Airport between October 13, 2000 and October 23, 2000. Some restrictions may apply. Check with your travel agent or the airlines.*

## Registration and Cancellation Policy

Complete the Registration Form on page 15 and return it with your payment to the address or fax number on the form. If you are submitting payment for multiple registrants, a complete Registration Form must be submitted for each person.

### September 1 is the last day to register without a late fee.

All registrations **received** after this date will be charged an additional fee of \$50. A confirmation will be sent if your registration arrives before September 29. Registrations received after this date will be processed on a space-available basis.

Students registering at the reduced rate must attach a copy of their current student ID. Student registrations received without a copy of the ID will not be processed.

All cancellations must be **received** in writing by September 29. No refunds are given if cancellations are received after this date. Refunds (minus a 10% processing fee) will be given after the conference.

## Registration Fees

**Full registration includes:** 1 continental breakfast, all refreshment breaks, 2 buffet lunches, 1 evening reception on Monday, 1 banquet ticket, a field trip and box lunch on Thursday, and all conference materials. It also includes entry to the Orion Society Forgotten Language Tour Tuesday night and the Soular Blues Band on Thursday night. You must register before September 29 to attend the reception at the Gateway Arch on Monday night.

**Student registration includes:** same as full registration.

Anyone registering at this rate **MUST** attach a copy of his/her current student ID.

**Daily registration includes:** daily refreshment breaks and conference materials. Daily registration on Tuesday, Wednesday, or Thursday includes a lunch; Friday does not. Admission to the banquet on Wednesday is additional.

## Early Registration Gift

Participants who register before the September 1 deadline will receive a useful gift.

## Local Information

Weather is variable in October. Temperatures range from 40-80F during the days to 30-50F at night.

### Visit these web sites

**for more information on the St. Louis area:**

St. Louis ([www.explorestlouis.com](http://www.explorestlouis.com))

Missouri Botanical Garden ([www.mobot.org](http://www.mobot.org))

St. Louis City Museum ([www.citymuseum.org](http://www.citymuseum.org))

Forest Park ([www.forestparkforever.org](http://www.forestparkforever.org))

The Gateway Arch ([www.nps.gov/jeff](http://www.nps.gov/jeff))

Missouri River Wine Country Association  
([www.usmo.com/~winectry](http://www.usmo.com/~winectry))

St. Louis Zoological Park ([www.stlzoo.org](http://www.stlzoo.org))

Wild Canid Survival and Research Center  
([www.wolfsanctuary.org](http://www.wolfsanctuary.org))

St. Louis University ([www.slu.edu/colleges/sps](http://www.slu.edu/colleges/sps))

Cahokia Mounds State Historic Site  
([www.cahokiamounds.com](http://www.cahokiamounds.com))

Metro Link ([www.bi-state.org](http://www.bi-state.org))

## Whom to Contact

**Commercial and Non-commercial Exhibits:** We have reserved space at the Henry VIII Hotel for commercial and non-commercial exhibitors. Display space for commercial exhibitors is \$250; space for non-commercial exhibitors is \$125. If you are interested in exhibiting, please contact us at the address below.

**Raffle, Silent Auction, and Live Auction:** Items for the raffle and auctions are most welcome. If you are interested in donating items, please contact us at the address below.

**Questions:** All questions about registration, special needs, fees, payment, sessions, speakers, conference field trips, etc. may be addressed to:

**Kate Leary, Conference Coordinator**  
**Missouri Department of Conservation**  
**P.O. Box 180**

**Jefferson City, MO 65102-0180**

**Phone: 573-751-4115 ext 3183**

**Fax: 573-526-5582**

**E-mail: [learyk@mail.conservations.state.mo.us](mailto:learyk@mail.conservations.state.mo.us)**

# 2000 Natural Areas Conference

## Registration Form

Please complete a separate form for each person. Incomplete registration forms will not be processed.

Name \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip Code \_\_\_\_\_ Country \_\_\_\_\_

Day Phone with Area Code \_\_\_\_\_

E-mail \_\_\_\_\_

Emergency Contact/Relation \_\_\_\_\_

Emergency Contact Phone \_\_\_\_\_

### Reception at the Gateway Arch

Monday, October 16, 7:30pm

Do you plan to attend this event? \_\_\_\_\_

### Conference Field Trip Selection

Advance registration is required for all conference field trips. On-site registration for field trips cannot be guaranteed and will be accepted on a space-available basis only. Indicate below your 1st, 2nd, and 3rd choices from among those trips listed on pages 7-12. Costs for the field trips (including a box lunch and transportation) are included in the registration fees, except trip #22.

1st \_\_\_\_\_ 2nd \_\_\_\_\_ 3rd \_\_\_\_\_

In completing this form, each person registered for either a pre-conference or conference field trip automatically indicates that he/she has read and agreed to the liability waiver on page 6 of this registration packet.

### Special Needs

If you need special meals or services, please provide specific information below:

Meals \_\_\_\_\_

Other \_\_\_\_\_

*We will do our best to accommodate your needs.*

### Fees and Payments

#### Full Registration

- ☐ Full regular .....\$ 185
- ☐ Full regular late .....\$ 235
- ☐ Full student .....\$ 120
- ☐ Full student late .....\$ 170

#### Daily Registration

- ☐ 10/17 Regular .....\$ 55
- ☐ 10/17 Student .....\$ 45
- ☐ 10/18 Regular .....\$ 55
- ☐ 10/18 Student .....\$ 45
- ☐ 10/19 Regular .....\$ 55
- ☐ 10/19 Student .....\$ 45
- ☐ 10/20 Regular .....\$ 55
- ☐ 10/20 Student .....\$ 45
- ☐ 10/18 Banquet .....\$ 30

#### NAA Membership

- ☐ New regular membership .....\$ 30
- ☐ New student membership .....\$ 15
- ☐ Renew regular membership .....\$ 30

#### Field Trips

(Read descriptions again to see what is included.)

- ☐ A. Sunklands .....\$125
- ☐ B. Ozarks .....\$225
- ☐ C. MOFEP .....\$200
- ☐ D. Prairies .....\$21
- ☐ E. St. Francois Mountains .....\$30
- ☐ F. Missouri Mines .....\$15
- ☐ G. Cache River .....—
- ☐ 22. Wine Country Tour .....\$10

**Total Payment** .....\$ \_\_\_\_\_

#### Method of Payment

(All payments must be made at the time you register. No purchase orders or credit will be accepted.)

☐ Check or money order payable to NAA

☐ VISA/MC # \_\_\_\_\_

exp \_\_\_\_\_ signature \_\_\_\_\_

#### SEND COMPLETED FORM AND PAYMENT TO:

Kate Leary, Conference Coordinator  
Missouri Department of Conservation  
PO Box 180  
Jefferson City, MO 65102-0180  
Fax: 573-526-5582



# 2000 NATURAL AREAS CONFERENCE

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Missouri Department of Natural Resources  
Monsanto  
National Park Service  
The Nature Conservancy of Illinois  
The Nature Conservancy of Missouri

## *Thank You Exhibitors and Vendors!*

Ann Grotjan Pottery  
Chuck Witcher Wildlife Graphics  
Eileen Melton, Wildlife Artist  
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Missouri Department of Conservation  
P.O. Box 180  
Jefferson City, MO 65102-0180